

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
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	<b>Name</b>	<b>Execution Date</b>
	INTERNATIONAL BUSINESS MACHINES CORPORATION	09/24/2018
<b>RECEIVING PARTY DATA</b>		
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<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	16451489
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<b>SIGNATURE:</b>	/Stephen F. Swinton/	
<b>DATE SIGNED:</b>	06/25/2019	
<b>Total Attachments: 1</b>		
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## PATENT ASSIGNMENT

Whereas, International Business Machines Corporation ("IBM"), a New York corporation having a place of business at Armonk, New York, has ownership of the following U.S. Patent Application Serial Number 15/832,157, all patents which may issue therefrom, and all divisionals, reissues, counterparts, substitutions, continuations, re-examinations and extensions thereof which may be pending in or granted in the United States and in all foreign countries and jurisdictions (the "Patent Application");

Whereas, the Institute of Bioengineering and Nanotechnology, Biomedical Sciences Institute ("the Institute") (Company Registration No. 199702109N) based in Singapore, located at 30 Biopolis Street, #09-02, Matrix, Singapore 138671 desires to acquire with IBM the entire undivided right, title and interest as joint owners in said Patent Application; and

Now, therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, IBM hereby transfers and assigns to IBM and the Institute as joint owners, and IBM and the Institute hereby accept from IBM as joint owners the transfer and assignment of the entire undivided right, title, and interest to the Patent Application, and all rights of priority resulting from the filing of the Patent Application subject to rights and licenses of third parties that attach as obligations of IBM. Such joint ownership is to be enjoyed by either owner, IBM or the Institute, including the right to grant licenses and releases to others of any scope under the Patent Application, without the requirement of consent of or notice or accounting to the other owner and without any other restriction of one owner over the other.

This transfer and assignment is effective as of the day upon which this Patent Assignment is signed by the second party to so sign, as indicated on the signature block.

In witness thereof, the parties hereto have executed this Patent Assignment by its respective duly authorized officer in their respective corporate names.

<b>Institute of Bioengineering and Nanotechnology, Biomedical Sciences Institute</b>	<b>International Business Machines Corporation</b>
By _____	By <u>Lisa M. Regan</u>
Name: _____	Name: Lisa M. Regan
Title: _____	Title: Director, Research and Intellectual Property Finance
Date: _____	Date: 9/24/18

Title